

# Specifications — RGB 580xi, RGB 580xi AAP models

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## Video — RGB 580xi

|                 |                     |
|-----------------|---------------------|
| Gain .....      | 0.35 V to 1.45 Vp-p |
| Bandwidth ..... | 300 MHz (-3 dB)     |

## Video input — RGB 580xi

|                                  |   |
|----------------------------------|---|
| Number/signal type .....         | 1 analog RGBHV, RGBS, RGsB, RsGsBs  |
| Connectors .....                 | 1 female 15-pin HD  |
| Nominal level .....              | 0.7 Vp-p for RGB  |
| Minimum/maximum levels .....     | Analog: 0.3 V to 1.45 Vp-p with no offset                                       |
| Impedance .....                  | 75 ohms or high Z, switchable (set to 75 ohms if no local monitor is connected) |
| Horizontal frequency .....       | Autoscan 15 kHz to 150 kHz  |
| Vertical frequency .....         | Autoscan 40 Hz to 140 Hz  |
| Return loss .....                | <-30 dB @ 5 MHz   |
| DC offset (max. allowable) ..... | 2.0 V   |

## Video input — RGB 580xi AAP, RGB 580xi I AAP, RGB 580xi S AAP, RGB 580xi SI AAP

|                          |                                    |
|--------------------------|------------------------------------|
| Number/signal type ..... | 1 analog RGBHV, RGBS, RGsB, RsGsBs |
| Connectors .....         | 1 female 15-pin HD                 |

## Video output — RGB 580xi

|                              |                                      |
|------------------------------|--------------------------------------|
| Number/signal type .....     | 1 analog RGBHV, RGBS, RGsB           |
| Connectors .....             | 5 BNC female                         |
| Nominal level .....          | 0.7 Vp-p for RGB                     |
| Minimum/maximum levels ..... | 0.35 V to 1.45 Vp-p                  |
| Impedance .....              | 75 ohms                              |
| Return loss .....            | -30 dB @ 5 MHz                       |
| DC offset .....              | ±5 mV maximum with input at 0 offset |

## Video output — RGB 580xi AAP, RGB 580xi I AAP, RGB 580xi S AAP, RGB 580xi SI AAP

|                          |                            |
|--------------------------|----------------------------|
| Number/signal type ..... | 1 analog RGBHV, RGBS, RGsB |
| Connectors .....         | 1 female 15-pin HD         |

## Sync

|                              |   |
|------------------------------|---|
| Input type .....             | RGBHV, RGBS, RGsB, RsGsBs   |
| Output type .....            | RGBHV, RGBS, RGsB   |
| Input level .....            | 2 V to 5.5 Vp-p with ±0.2 VDC offset max.   |
| Output level .....           | TTL: 4 V to 5 Vp-p, unterminated  |
| Input impedance .....        | 510k ohms   |
| Output impedance .....       | 75 ohms   |
| Max. propagation delay ..... | 85 ns   |
| Max. rise/fall time .....    | 2 ns  |
| Polarity .....               | RGBHV: Polarity follows input when RGBHV is input and the sync polarity switch is set to Off. Sync polarity is negative if the sync polarity switch is set to On.<br>RGBS, RGsB: negative |

## Audio

|                                 |   |
|---------------------------------|---|
| Gain .....                      | Unbalanced output: 0 dB; balanced output: +6 dB |
| Frequency response .....        | 20 Hz to 20 kHz, ±0.05 dB                       |
| THD + Noise .....               | 0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level   |
| S/N .....                       | >90 dB at maximum output, balanced (unweighted) |
| Stereo channel separation ..... | >90 dB @ 1 kHz to 20 kHz                        |

## Audio input

|                          |  |
|--------------------------|--|
| Number/signal type ..... | 1 PC level stereo, unbalanced                                  |
| Connectors .....         | (1) 3.5 mm stereo mini audio jack (female) (tip, ring, sleeve) |

|                     |  |
|---------------------|--|
| Impedance .....     | >5k ohms, unbalanced, DC coupled               |
| Nominal level ..... | -10 dBV (316 mV)                               |
| Maximum level ..... | +8.5 dBu, (balanced or unbalanced) at 1% THD+N |

**NOTE**  $0\text{ dBu} = 0.775\text{ Vrms}$ ,  $0\text{ dBV} = 1\text{ Vrms}$ ,  $0\text{ dBV} \approx 2\text{ dBu}$

## Audio output

|                               |  |
|-------------------------------|--|
| Number/signal type .....      | 1 buffered stereo (2 channel), balanced/unbalanced |
| Connectors .....              | (1) 3.5 mm, captive screw connector, 5 pole        |
| Impedance .....               | 50 ohms unbalanced, 100 ohms balanced              |
| Gain error .....              | $\pm 0.1$ dB channel to channel                    |
| Maximum level (600 ohm) ..... | > +14 dBm, balanced or unbalanced at 1% THD+N      |

## Control/remote — interface

|                                     |   |
|-------------------------------------|---|
| Serial control port .....           | RS-232, captive screw connector, 3 pole   |
| Baud rate and protocol .....        | 9600 baud, 8 data bits, 1 stop bit, no parity   |
| Serial control pin configuration .. | 1 = TX, 2 = RX, 3 = GND   |
| Program control .....               | Extron's control/configuration program for Windows®<br>Extron's Simple Instruction Set (SIS™) |

## General

|  |  |
|--|--|
| Power (RGB 580xi) .....  | 100VAC to 240VAC, 50/60 Hz, 18 watts, internal, autoswitchable   |
| Temperature/humidity .....   | Storage: -40 to +158 °F (-40 to +70 °C) / 10% to 90%, noncondensing<br>Operating: +32 to +122 °F (0 to +50 °C) / 10% to 90%, noncondensing |
| Rack mount .....   | No, but furniture mountable with included under-desk mounting kit #70-077-01   |
| Enclosure type .....   | Metal (vented)   |
| Enclosure dimensions   |  |
| RGB 580xi .....  | 1.75" H x 6.4" W x 6.0" D<br>4.4 cm H x 16.3 cm W x 15.2 cm D<br>(Depth excludes connectors.)  |
| RGB 580xi AAP models   |  |
| Faceplate .....  | 1.4" H x 3.5" W x 0.1" D (3.6 cm H x 8.9 cm W x 0.3 cm D)<br>(double-space high AAP plates)  |
| Circuit board .....  | 1.3" H x 2.5" W x 0.9" D<br>(3.3 cm H x 6.4 cm W x 2.3 cm D)<br>(Depth excludes connectors, knobs, and faceplate.)                         |
| Product weight   |  |
| RGB 580xi I AAP 3', RGB 580xi SI AAP 3' .....  | 0.4 lbs (0.2 kg)   |
| RGB 580xi AAP 3', RGB 580xi S AAP 3' .....   | 0.5 lbs (0.3 kg)   |
| RGB 580xi AAP 6', RGB 580xi I AAP 6' .....   | 0.6 lbs (0.3 kg)   |
| RGB 580xi S AAP 6', RGB 580xi SI AAP 6' .....  | 0.7 lbs (0.3 kg)   |
| RGB 580xi AAP 12', RGB 580xi I AAP 12',<br>RGB 580xi S AAP 12', RGB 580xi SI AAP 12' ..... | 1.0 lbs (0.5 kg)   |
| RGB 580xi .....  | 1.2 lbs (0.5 kg)   |
| Shipping weight .....  | AAP models ..... 2 lb (1 kg)<br>RGB 580xi ..... 4 lbs (2 kg)   |
| Vibration .....  | ISTA 1A in carton (International Safe Transit Association)   |
| Listings .....   | UL, CUL  |
| Compliances .....  | CE, FCC Class A, VCCI, AS/NZS, ICES  |
| MTBF .....   | 30,000 hours   |
| Warranty .....   | 3 years parts and labor  |

**NOTE** All nominal levels are at  $\pm 10\%$ .

**NOTE** Specifications are subject to change without notice.

(7.51-111506-D7)